)EP METEORIC WATER MOBILITY TEST ABORATORY NUMBER G066-07L NVOICE NUMBER G0214L ATE March 27, 1992 'age 2 of 3 'ample I.D.: Waste Rock Characterization W-3

'EST PROCEDURE

aterial, all passing 2 inches identified by the client as Waste Rock W-3 arch '92 was air dried and split to obtain a test sample of 5,116.6 grams. he sample was placed in an 8 inch column for extraction by an artificial ixiviant of pH 6.12 made from reagent grade water and nitric acid. A olution application rate of .48 liters per hour was used to circulate 11,580 illiliters of the lixiviant through the material. Solution recovery at 24 ours was 96.4% with a saturation volume of 210 ml's. The recovered olution was preserved for testing as required for each type of analysis to e conducted.

separate split of the test material was wet screened to obtain the ercentage of material passing a 200 mesh U.S. standard screen. Test results re tabulated as follows:

mple: Waste Rock Charaterization W-3
st Sample Weight: 5,116.6 grams
plution Volume applied: 11,580 milliliters
nitial pH: 6.12 Lixiviant
inal pH: 5.87 Effluent
ach Time: 24 hours Leach Method: Column
aturation Volume: 210 milliliters
preent material passing 200 mesh: 8.92%

METHOD

<pre>lkalinity: Bicarbonate Total</pre>	17	mg/l mg/l	EPA 310.0
ılfate:	908	mg/l	EPA 375.4
ıloride:	13.75	mg/l	EPA 325.3
trate:	4.55*	mg/l	EPA 350.3
uoride:	2.50*	mg/l	EPA 340.2
A.D. Cyanide:	1,522	mg/l	EPA 160.2
	N/A	mg/l	ASTM D2036-89

* Indicates analytical constituent analyzed by another laboratory.

DEP METEORIC WATER MOBILITY TEST LABORATORY NUMBER G066-07L INVOICE NUMBER G0214L DATE March 27, 1992

Page 3 of 3
Sample I.D.: Waste Rock Characterization W-3

AMENDED PAGE

	32 ELEMENT ANALYSIS					
	Sample 1	I.D.: Waste Roc	k Characteriz	zation W-3		
Element	ppm	Element	ррш	Element	ppm	
Aluminum	0.069	Gallium	-0.050	Scandium	-0.050	
Antimony	-0.050*	Iron	0.143	Selenium	-0.005	
Arsenic	-0.05*	Lead	-0.025	Silver	-0.05*	
Barium	0.099	Lithium	0.24	Sodium	14.36	
eryllium	0.004	Magnesium	31.65	Strontium	1.171	
Bismuth	-0.025	Manganese	1.095	Thallium	-0.040	
Cadmium	-0.005	Mercury	0.00294*	Tin	-0.080	
Calcium	246*	Molybdenum	0.010	Titanium	0.038	
Chromium	0.109	Nickel	0.085	Vanađium	0.008	
Cobalt	0.123	Phosphorus	-0.100	Zinc	0.607	
Copper	19.41	Potassium	7.400			

EPA METHOD: 200 SERIES *Indicates analytical constituent analyzed by another laboratory.

spectfully Submitted

ryne M. Colwell meral Manager

MPEL 1855 DEMING WAY . SPARKS NEVADA 89431 . TELEPHONE(702) 331-3600



MINERALS PROCESSING AND ENVIRONMENTAL LABORATORIES, INC.

STATIC TEST

FOR

Arimetco, Inc./Copper Tek Corporation 102 Burch Drive Yerington, NV 89447

ATTN: Bill Sifford

Laboratory Number G066-07A Invoice Number G0214A

February 4, 1993

FINAL REPORT

Static Test Laboratory Number G066-07A Invoice Number G0214A Date February 4, 1993 Page 2 of 2

FINAL REPORT

Sample I.D.: Waste Ro	ck Characteriz	cation W-3
		Units of Measure
Total Sulfur (as S)	0.19	ફ
Pyritic Sulfur (as S)	0.05	ૠ
Sulfur, Unidentified (as S)	-0.01	8
Sulfate, Sulfur (%)	0.18	ક
APP/Peroxide (as S)	-0.01	8
Total Sulfur	5.9	(Tons CaC03/Kt)
Pyritic Sulfur	1.6	(Tons CaC03/Kt)
APP/Peroxide	-0.3	(Tons CaC03/Kt)
Acid Neutralizing Potential	6.9	(Tons CaC03/Kt)

Wayne M. Colwell General Manager

MPEL 1855 DEMING WAY . SPARKS, NEVADA 89431 . TELEPHONE (702) 331-3600

Analysis: Metals Matrix: Solids

Case Number: R01S07
Site: PPER MINE, YERINGTON
SDG: 00299B, 00299C
Date: 11/07/00

Sample I.D.	N/A		4/2		× 2							
Sample I.D.			t		-	-	4/2					
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Date of Conference	00/61/01		10/13/00		10/19/00		10/19/00		10/19/00		10/10/00	
Units	mg/Kg		mg/Kg		mg/Kg		me/Ke		ma/Ka		00/21/01	
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Comments refer to the corresponding section in the report narrative for each letter.

NA - Nor Applicable.

NR - Not Required.

Q - Refer to data qualifiers.

U - The parameter was analyzed for, but was not detected; The associated value is the sample quantitation limit, adjusted for dilution, if any.

All results are in mg/Kg dry weight.

DE PUBLINE A 103

TO THE MINE, YEMING TON

HG: 002991, 00299C

Analysis: Metals Matrix: Solids

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Column C	Te.	mg/Kg Result	Q Con	mg/Kg	0		0	88.1				AB28936 16/19/00 14g/Kg	
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· Contanents series to the carresponding section in the report narrative for each letter,

- Not Applicable, - Net Request

ofer to data qualifiers.

be parameter was analyzed for, but was not detected. The associated valve is the sample quantitation limit, adjusted for dilutios, if any, so associated valve is an estimated quantity.



Photo 1 Looking southwest at South Waste Rock Dump from Highway 95 at Bridge Street (5/24/2002)



Photo 2
Looking northeast at southeast corner of South WRA; Yerington water tank in foreground (1/24/2002)

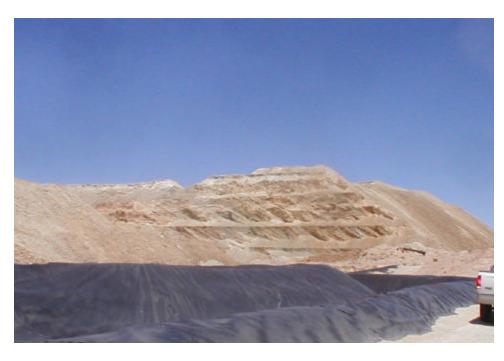


Photo 3
Looking northwest at "slot" mine cut and W-3 Waste Rock Dump – Phase IV-Slot solution drainage berm and liner in foreground (5/24/2002)

JSA NUMBER: Yerington – 04 DATE: 08/05/02	Company Performing the Job:	SUPERVISOR: Charles Zimmerman
NEW X	Brown and Caldwell	
REVISION		SAFETY OFFICER: Brian Bass
JOB TITLE OR TASK:	TITLE OF PERSON(S) WHO PERFORMS JOB:	ANALYSIS BY: Nathan Earl Robison
	Site Managers: Brian Bass, Nathan Robison, Chad	
Surface Investigation for Waste Rock Dump closure.	Leonard	REVIEWED BY:
	Operations Technician:	
		APPROVED BY:

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT (PPE) AND/OR PERTINENT JOB SAFETY FORMS: Hard hat, safety goggles or glasses, steel-toed boots. As appropriate: rubber gloves, face shield, rubber boots or hip waders, half-mask respirator.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	PREVENTIVE OR CORRECTIVE ACTION
1. Pre-Construction Safety Meeting.		1. All employees assigned to this task will attend a pre-construction safety meeting, which will include the pertinent JSAs, Standard Operating Procedures, types of potential hazards, and actual hazards present and controls for those hazards.
Collection of soil sample by hand and decontamination of equipment.	Skin irritation from dermal or eye contact. Slipping or falling on surface- sharp rock.	 Wear rubber or latex gloves to prevent contact with hands and arms. Wear safety glasses or goggles to prevent eye contact from dust. Wear boots with treaded soles to reduce potential for slipping.
3. All Activities	Back, hand, or foot injuries during manual handling of materials.	 Workers should inspect materials for slivers, jagged or sharp edges, and rough or slippery surfaces. Workers should wipe off greasy, wet, slippery, or dirty objects before attempting to handle them. In most cases, gloves or other protection should be used to prevent hand injuries. Steel-toed boots should be used for protection of the feet when not in the water. Routes should be surveyed for obstacles prior to moving materials from one location to another. All three main factors in manual lifting (load location, task repetition, and load weight) must be considered when evaluating what is safe or unsafe to lift. All manual handling of heavy or bulky objects should be carefully planned to avoid injuries and damage to equipment.
4. All Activities	1. Heat exhaustion or stroke.	 Avoid strenuous work in ambient temperatures over 80 degrees F. Wear light-colored clothing, shaded sunglasses, and hat that provides shade and adequate air movement. Find cool, shady area for breaks or respite from heat. If worker feels dizzy, has a headache, has cool, moist, or pale skin or is weak, immediately move to a cooler environment, loosen tight clothing, provide air circulation to area, and provide small amounts of cool water to drink. If worker has a change in level of consciousness, high body temperature, red, hot skin, rapid or weak pulse, or rapid or shallow breathing, call the emergency phone number and give care in accordance with #4 above.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	PREVENTIVE OR CORRECTIVE ACTION
5. All Activities	1. Hypothermia or frostbite.	Avoid working in extreme cold.
		Wear warm, layered clothing with adequate protection for hands and feet.
		3. Find warm area out of the wind for breaks or respite from cold.
		4. If worker experiences shivering, irregular pulse, numbness, glassy
		stare, impaired judgement, loss of muscle control with no
		shivering, or loss of consciousness, gently move worker to warm
		place, check vital signs, remove any wet clothing, cover with blankets and warm slowly.
		5. If worker experiences loss of feeling or sensation in extremities,
		discolored or waxy skin, blisters or blue skin, remove wet
		clothing and jewelry, soak frostbitten area in warm water, cover
		with dry, sterile dressing (do not rub anything on the area),
		check vital signs.
6. Unsafe conditions.	1. All potential hazards.	1. Where a situation presents a hazardous condition, the exposed
		employee will be removed from the hazardous area until all
		necessary precautions have been taken to eliminate the hazard
		and ensure their safety.

	Personnel Signatures	
JSA NUMBER: Yerington-04 DATE: 08/01/02	Company Performing the Job:	SUPERVISOR: Charles Zimmerman
NEW X	Brown and Caldwell	
REVISION		SAFETY OFFICER: Brian Bass
JOB TITLE OR TASK:	TITLE OF PERSON(S) WHO PERFORMS JOB:	ANALYSIS BY: Nathan Earl Robison
	Site Managers: Brian Bass, Nathan Robison, Chad	
Surface Investigation for Waste Rock Dump closure.	Leonard	REVIEWED BY:
	Operations Technician:	
		APPROVED BY: